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area enclosed by rhumb lines, [North American Datum of 1927 (NAD-27)] joining points at:

Latitude	Longitude
40°32'20" N	73°04'57" W
40°30'58" N	72°58'25" W
40°34'07" N	70°19'23" W
40°35'37" N	70°14'09" W
40°30'37" N	70°14'00" W
40°32'07" N	70°19'19" W
40°28'58" N	72°58'25" W
40°27'20" N	73°04'57" W

(ii) *Nantucket to Ambrose Safety Fairway*. The area enclosed by rhumb lines, NAD-27, joining point at:

Latitude	Longitude
28°54'33" N	89°26'07" W
40°24'20" N	73°04'58" W
40°22'58" N	72°58'26" W
40°26'07" N	70°19'09" W
40°27'37" N	70°13'46" W
40°22'37" N	70°13'36" W
40°24'07" N	70°19'05" W
40°20'58" N	72°58'26" W
40°19'20" N	73°04'58" W

[CGD 84-004, 52 FR 33589, Sept. 4, 1987; 52 FR 36248, Sept. 28, 1987]

PART 167—OFFSHORE TRAFFIC SEPARATION SCHEMES

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167.350 In the approaches to Galveston Bay Traffic Separation Scheme and precautionary areas.

AUTHORITY: 33 U.S.C. 1223; 49 CFR 1.46.

SOURCE: CGD 81-080, 48 FR 36456, Aug. 11, 1983, unless otherwise noted.

Subpart A—General

§ 167.1 Purpose.

The purpose of the regulations in this part is to establish and designate traffic separation schemes and precautionary areas to provide access routes for vessels proceeding to and from U.S. ports.

§ 167.3 Geographic coordinates.

Geographic coordinates are defined using North American 1927 Datum (NAD 27) unless indicated otherwise.

[CGD 90-039, 59 FR 21937, Apr. 28, 1994]

§ 167.5 Definitions.

(a) *Traffic separation scheme* (TSS) means a designated routing measure which is aimed at the separation of opposing streams of traffic by appropriate means and by the establishment of traffic lanes.

(b) *Traffic lane* means an area within defined limits in which one-way traffic is established. Natural obstacles, including those forming separation zones, may constitute a boundary.

(c) *Separation zone or line* means a zone or line separating the traffic lanes in which ships are proceeding in opposite or nearly opposite directions; or separating a traffic lane from the adjacent sea area; or separating traffic lanes designated for particular classes of ships proceeding in the same direction.

(d) *Precautionary area* means a routing measure comprising an area within

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defined limits where ships must navigate with particular caution and within which the direction of traffic flow may be recommended.

(e) *Deep-water route* means an internationally recognized routing measure primarily intended for use by ships that, because of their draft in relation to the available depth of water in the area concerned, require the use of such a route.

(f) *Two-way route* means a route within defined limits inside which two-way traffic is established, aimed at providing safe passage of ships through waters where navigation is difficult or dangerous.

[CGD 81-080, 48 FR 36456, Aug. 11, 1983; 49 FR 15548, Apr. 19, 1984, as amended by CGD 90-039, 59 FR 21937, Apr. 28, 1994; CGD 97-004, 65 FR 12945, Mar. 10, 2000]

§ 167.10 Operating rules.

The operator of a vessel in a TSS shall comply with Rule 10 of the International Regulations for Preventing Collisions at Sea, 1972, as amended.

§ 167.15 Modification of schemes.

(a) A traffic separation scheme or precautionary area described in this Part may be permanently amended in accordance with 33 U.S.C. 1223 (92 Stat. 1473), and with international agreements.

(b) A traffic separation scheme or precautionary area in this Part may be temporarily adjusted by the Commandant of the Coast Guard in an emergency, or to accommodate operations which would create an undue hazard for vessels using the scheme or which would contravene Rule 10 of the International Regulations for Preventing Collisions at Sea, 1972. Adjustment may be in the form of a temporary traffic lane shift, a temporary suspension of a section of the scheme, a temporary precautionary area overlaying a lane, or other appropriate measure. Adjustments will only be made where, in the judgment of the Coast Guard, there is no reasonable alternative means of conducting an operation and navigation safety will not be jeopardized by the adjustment. Notice of adjustments will be made in the appropriate Notice to Mariners and in the FEDERAL REGISTER. Requests by mem-

bers of the public for temporary adjustments to traffic separation schemes must be submitted 150 days prior to the time the adjustment is desired. Such Requests, describing the interference that would otherwise occur to a TSS, should be submitted to the District Commander of the Coast Guard District in which the TSS is located.

Subpart B—Description of Traffic Separation Schemes and Precautionary Areas

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SOURCE: CGD 84-004, 52 FR 33589, Sept. 4, 1987, unless otherwise noted.

§ 167.150 Off New York Traffic Separation Scheme: General.

The specific areas in the Off New York Traffic Separation Scheme and Precautionary Areas are described in §§ 167.151, 167.152, 167.153, 167.154, and 167.155 of this chapter.

[CGD 84-004, 52 FR 33589, Sept. 4, 1987]

§ 167.151 Off New York: Precautionary areas.

(a) A circular precautionary area with a radius of seven miles is established centered upon Ambrose Light in geographical position 40°27.50'N, 73°49.90' W.

(b) A precautionary area is established between the traffic separation scheme "Eastern Approach, off Nantucket" and the traffic separation scheme "In the Approach to Boston, Massachusetts." (1) The precautionary area is bounded to the east by a circle of radius 15.5 miles, centered upon geographical position 40°35.00'N, 69°00.00' W, and is intersected by the traffic separation schemes "In the Approach to Boston, Massachusetts" and "Off New York" at the following geographic positions:

Latitude	Longitude
40°50.33' N	68°57.00' W
40°23.75' N	69°14.63' W

(2) The precautionary area is bounded to the west by a line connecting the two traffic separation schemes between the following geographical positions:

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Latitude	Longitude
40°36.75' N	68°15.16' W
40°48.00' N	69°03.33' W

[CGD 84-004, 52 FR 33589, Sept. 4, 1987]

§ 167.152 Off New York: Eastern approach, off Nantucket.

(a) A separation zone is established bounded by a line connecting the following geographical positions:

Latitude	Longitude
40°28.75' N	69°14.83' W
40°27.62' N	70°13.77' W
40°30.62' N	70°14.00' W
40°31.75' N	69°14.97' W

(b) A traffic lane for westbound traffic is established between the separation zone and a line connecting the following geographical positions:

Latitude	Longitude
40°36.75' N	69°15.17' W
40°35.62' N	70°14.15' W

(c) A traffic lane for eastbound traffic is established between the separation zone and a line connecting the following geographical positions:

Latitude	Longitude
40°22.62' N	70°13.60' W
40°23.75' N	69°14.63' W

[CGD 84-004, 52 FR 33589, Sept. 4, 1987]

§ 167.153 Off New York: Eastern approach, off Ambrose Light.

(a) A separation zone is established bounded by a line connecting the following geographical positions:

Latitude	Longitude
40°24.33' N	73°04.97' W
40°24.20' N	73°11.50' W
40°26.00' N	73°40.93' W
40°27.00' N	73°40.75' W
40°27.20' N	73°11.50' W
40°27.33' N	73°04.95' W

(b) A traffic lane for westbound traffic is established between the separation zone and a line connecting the following geographical positions:

Latitude	Longitude
40°32.33' N	73°04.95' W
40°32.20' N	73°11.50' W
40°28.00' N	73°40.73' W

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(c) A traffic lane for eastbound traffic is established between the separation zone and a line connecting the following geographical positions:

Latitude	Longitude
40°25.05' N	73°41.32' W
40°19.20' N	73°11.50' W
40°19.33' N	73°04.97' W

[CGD 84-004, 52 FR 33589, Sept. 4, 1987]

§ 167.154 Off New York: South-eastern approach.

(a) A separation zone is established bounded by a line connecting the following geographical positions:

Latitude	Longitude
40°03.10' N	73°17.93' W
40°06.50' N	73°22.73' W
40°22.45' N	73°43.55' W
40°23.20' N	73°42.70' W
40°08.72' N	73°20.10' W
40°05.32' N	73°15.28' W

(b) A traffic lane for north-westbound traffic is established between the separation zone and a line connecting the following geographical positions:

Latitude	Longitude
40°08.98' N	73°10.87' W
40°12.42' N	73°15.67' W
40°24.02' N	73°41.97' W

(c) A traffic lane for south-eastbound traffic is established between the separation zone and a line connecting the following geographical positions:

Latitude	Longitude
40°21.82' N	73°44.55' W
40°02.80' N	73°27.15' W
39°59.43' N	73°22.35' W

[CGD 84-004, 52 FR 33589, Sept. 4, 1987, as amended by CGD 97-023, 62 FR 33365, June 19, 1997]

§ 167.155 Off New York: Southern approach.

(a) A separation zone is established bounded by a line connecting the following geographical positions:

Latitude	Longitude
39°45.70' N	73°48.00' W
40°20.63' N	73°48.33' W
40°20.87' N	73°47.07' W
39°45.70' N	73°44.00' W

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(b) A traffic lane for northbound traffic is established between the separation zone and a line connecting the following geographical positions:

Latitude	Longitude
39°45.70' N	73°37.70' W
40°21.25' N	73°45.85' W

(c) A traffic lane for southbound traffic is established between the separation zone and a line connecting the following geographical positions:

Latitude	Longitude
40°20.53' N	73°49.65' W
39°45.70' N	73°54.40' W

NOTE: Use of LORAN C enables masters of appropriately equipped vessels to be informed highly accurately and continuously about the vessel's position in the area covered by this scheme.

[CGD 84-004, 52 FR 33589, Sept. 4, 1987]

§ 167.170 Off Delaware Bay Approach Traffic Separation Scheme: General.

The Off Delaware Bay Approach Traffic Separation Scheme consists of four parts: an Eastern Approach, a South-eastern Approach, a Two-Way Traffic Route, and a Precautionary Area. The specific areas in the Off Delaware Bay Approach Traffic Separation Scheme and Precautionary Area are described in §§ 167.171 through 167.174.

[CGD 97-004, 65 FR 12945, Mar. 10, 2000]

§ 167.171 Off Delaware Bay: Eastern approach.

(a) A separation zone is established bounded by a line connecting the following geographic positions:

Latitude	Longitude
38°46.30'N	74°34.45'W
38°46.33'N	74°55.75'W
38°47.45'N	74°55.40'W
38°47.35'N	74°34.50'W

(b) A traffic lane for westbound traffic is established between the separation zone and a line connecting the following geographic positions:

Latitude	Longitude
38°48.32'N	74°55.30'W
38°49.80'N	74°34.60'W

(c) A traffic lane for eastbound traffic is established between the separation zone and a line connecting the following geographic positions:

Latitude	Longitude
38°45.45'N	74°56.20'W
38°44.45'N	74°34.35'W

[CGD 97-004, 65 FR 12945, Mar. 10, 2000]

§ 167.172 Off Delaware Bay: South-eastern approach.

(a) A separation zone is established bounded by a line connecting the following geographic positions:

Latitude	Longitude
38°27.00'N	74°42.30'W
38°43.40'N	74°58.00'W
38°44.20'N	74°57.20'W
38°27.60'N	74°41.30'W

(b) A traffic lane for north-westbound traffic is established between separation zone and a line connecting the following geographic positions:

Latitude	Longitude
38°28.80'N	74°39.30'W
38°45.10'N	74°56.60'W

(c) A traffic lane for south-eastbound traffic is established between the separation zone and a line connecting the following geographic positions:

Latitude	Longitude
38°42.80'N	74°58.90'W
38°27.00'N	74°45.40'W

[CGD 97-004, 65 FR 12945, Mar. 10, 2000]

§ 167.173 Off Delaware Bay: Two-Way Traffic Route.

The Two-Way Traffic Route is recommended for use predominantly by tug and tow traffic transiting to and from the northeast in order to separate such traffic from large, inbound vessel traffic.

(a) The Two-Way Traffic Route is bounded on the west and south by a line connecting the following geographic positions:

Latitude	Longitude
38°50.75'N	75°03.40'W
38°47.50'N	75°01.80'W
38°48.32'N	74°55.30'W
38°50.20'N	74°49.73'W

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Latitude	Longitude
39°00.00'N	74°40.23'W

(b) The two-way traffic route is bounded on the east and north by a line connecting the following geographic positions:

Latitude	Longitude
39°00.00'N	74°41.00'W
38°50.48'N	74°50.30'W
38°48.80'N	74°55.25'W
38°48.33'N	74°59.30'W
38°49.10'N	75°01.65'W
38°51.27'N	75°02.83'W

[CGD 97-004, 65 FR 12945, Mar. 10, 2000]

§ 167.174 Off Delaware Bay: Precautionary area.

A precautionary area is established as follows: from 38°42.80'N, 74°58.90'W; then northerly by an arc of eight nautical miles centered at 38°48.90'N, 75°05.60'W to 38°48.32'N, 74°55.30'W; then westerly to 38°47.50'N, 75°01.80'W; then northerly to 38°50.75'N, 75°03.40'W; then northeasterly to 38°51.27'N, 75°02.83'W; then northerly to 38°54.80'N, 75°01.60'W; then westerly by an arc of 6.7 nautical miles centered at 38°48.90'N, 75°05.60'W to 38°55.53'N, 75°05.87'W; then southwesterly to 38°54.00'N, 75°08.00'W; then southerly to 38°46.60'N, 75°03.55'W; then southeasterly to 38°42.80'N, 74°58.90'W.

Datum: NAD 83.

[CGD 97-004, 65 FR 12946, Mar. 10, 2000]

§ 167.200 In the approaches to Chesapeake Bay Traffic Separation Scheme: General.

(a) The traffic separation scheme in the approaches to Chesapeake Bay consists of three parts: a Precautionary Area, an Eastern Approach, and a Southern Approach. The Southern Approach consists of inbound and outbound lanes for vessels drawing 13.5 meters (45 feet) of fresh water or less, separated by a deep-water (DW) route for inbound and outbound vessels with drafts exceeding 13.5 meters (45 feet) in fresh water and for naval aircraft carriers. Each part is defined geographically, using North American Datum 1983 (NAD 83), in §§ 167.201, 167.202, 167.203.

(b) All vessels approaching the Traffic Separation Scheme in the Ap-

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proaches to Chesapeake Bay should use the appropriate inbound or outbound traffic lane.

[CGD 90-039, 59 FR 21937, Apr. 28, 1994]

§ 167.201 In the approaches to Chesapeake Bay: Precautionary area.

A precautionary area is established bounded by a circle with a two-mile radius, centered on the following geographic position:

Latitude	Longitude
36°56.14' N	75°57.43' W

[CGD 90-039, 59 FR 21937, Apr. 28, 1994]

§ 167.202 In the approaches to Chesapeake Bay: Eastern approach.

(a) A separation line is established connecting the following geographic positions:

Latitude	Longitude
36°58.66' N	75°48.63' W
36°56.79' N	75°55.08' W

(b) An inbound traffic lane is established between the separation line and a line connecting the following geographical positions:

Latitude	Longitude
36°59.14' N	75°48.88' W
36°57.24' N	75°55.34' W

(c) An outbound traffic lane is established between the separation line and a line connecting the following geographical positions:

Latitude	Longitude
36°56.29' N	75°54.93' W
36°58.18' N	75°48.48' W

[CGD 90-039, 59 FR 21937, Apr. 28, 1994]

§ 167.203 In the approaches to Chesapeake Bay: Southern approach.

(a) An inbound traffic lane is established between separation lines running through the following geographical positions:

Latitude	Longitude
36°50.33' N	75°46.29' W
36°52.90' N	75°51.52' W
36°55.96' N	75°54.97' W
36°55.11' N	75°55.23' W
36°52.35' N	75°52.12' W
36°49.70' N	75°46.80' W

(b) An outbound traffic lane is established between separation lines running through the following geographical positions:

Latitude	Longitude
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36°49.52' N	75°46.94' W
36°52.18' N	75°52.29' W
36°54.97' N	75°55.43' W
36°54.44' N	75°56.09' W
36°51.59' N	75°52.92' W
36°48.87' N	75°47.42' W

(c) A deep-water route is established between lines running through the following geographical positions:

Latitude	Longitude
36°55.11' N	75°55.23' W
36°52.35' N	75°52.12' W
36°49.70' N	75°46.80' W
36°49.52' N	75°46.94' W
36°52.18' N	75°52.29' W
36°54.97' N	75°55.43' W

(d) The following vessels should use the deep-water route established in paragraph (c) of this section when bound for Chesapeake Bay from sea or to sea from Chesapeake Bay:

(1) Deep draft vessels (drafts greater than 13.5 meters/45 feet in fresh water).

(2) Naval aircraft carriers.

(e) It is recommended that a vessel using the deep-water route established in paragraph (c) of this section—

(1) Announce its intention on VHF-FM Channel 16 as it approaches Chesapeake Bay Southern Approach Lighted Whistle Buoy CB on the south end, or Chesapeake Bay Junction Lighted Buoy CBJ on the north end of the route;

(2) Avoid, as far as practicable, overtaking other vessels operating in the deep-water route; and

(3) Keep as near to the outer limit of the route which lies on the vessel's starboard side as is safe and practicable.

(f) Vessels other than those listed in paragraph (d) of this section should not use the deep-water route.

[CGD 90-039, 59 FR 21937, Apr. 28, 1994, as amended by 59 FR 28449, June 1, 1994]

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§ 167.350 In the approaches to Galveston Bay Traffic Separation Scheme and precautionary areas.

(a) An inshore precautionary area bounded by a line connecting the following geographical positions:

Latitude	Longitude
(1) 29° 18.10' N	94° 39.20' W
(2) 29° 16.10' N	94° 37.00' W
(3) 29° 18.00' N	94° 34.90' W

Latitude	Longitude
(4) 29° 19.40' N	94° 37.10' W
(5) 29° 19.80' N	94° 38.10' W

(b) A traffic separation zone bounded by a line connecting the following geographical positions:

Latitude	Longitude
(6) 29° 17.13' N	94° 35.86' W
(7) 29° 09.55' N	94° 25.80' W
(8) 29° 09.41' N	94° 25.95' W
(9) 29° 17.00' N	94° 36.00' W

(c) A traffic lane for inbound (northwesterly heading) traffic is established between the separation zone and a line connecting the following geographical positions:

Latitude	Longitude
(3) 29° 18.00' N	94° 34.90' W
(10) 29° 11.20' N	94° 24.00' W

(d) A traffic lane for outbound (southeasterly heading) traffic is established between the separation zone and line connecting the following geographical positions:

Latitude	Longitude
(2) 29° 16.10' N	94° 37.00' W
(11) 29° 07.70' N	94° 27.80' W

(e) An offshore precautionary area bounded by a line connecting the following geographical positions:

Latitude	Longitude
(11) 29° 07.70' N	94° 27.80' W
(12) 29° 06.40' N	94° 26.20' W
(13) 29° 06.40' N	94° 23.90' W
(14) 29° 09.10' N	94° 20.60' W
(10) 29° 11.20' N	94° 24.00' W

NOTE: A pilot boarding area is located near the center of the inshore precautionary area. Due to heavy vessel traffic, mariners are advised not to anchor or linger in this precautionary area except to pick up or disembark a pilot.

[CGD 81-080, 48 FR 36456, Aug. 11, 1983. Redesignated by CGD 84-004, 52 FR 33589, Sept. 4, 1987; CGD 89-019, 54 FR 28062, July 5, 1989; 54 FR 51972, Dec. 19, 1989]

PART 168—ESCORT REQUIREMENTS FOR CERTAIN TANKERS

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